

Fig. 1

Example

Source	Value	Target
ST(2)	C	t27
ST(1)	B	t26
ST(0)	A	t25
ST(7)	*	t24
ST(6)	*	t23
ST(5)	*	t22
ST(4)	*	t21
ST(3)	*	t20

Code Block B31

Source:
L1: FADDP ; //pop
JMP L2

Translated pseudo-code:
L1: CMP 5, Actual_TOS
NE ? BR Correct
f26 = f26 * f25
Actual_TOS = 6
BR L2

Source	Value	Target
ST(1)	C	t27
ST(0)	AB	t26
ST(7)	*	t25
ST(6)	*	t24
ST(5)	*	t23
ST(4)	*	t22
ST(3)	*	t21
ST(2)	*	t20

After B31 execution:

Expected_TOS = 6
Actual TOS = 6

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Code Block B32

Source:
L2: FADDP ; //pop
FLDE [eax]; //push
JMP L3

Translated pseudo-code:
L2: CMP 6, Actual_TOS
NE ? BR Correct
f27 = f26 + f27
fld e f26 = [r20];
BR L3

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After B32 execution:

Expected TOS = 6
Actual TOS = 6

Source	Value	Target
ST(1)	AB+C	t27
ST(0)	X	t26
ST(7)	*	t25
ST(6)	*	t24
ST(5)	*	t23
ST(4)	*	t22
ST(3)	*	t21
ST(2)	*	t20

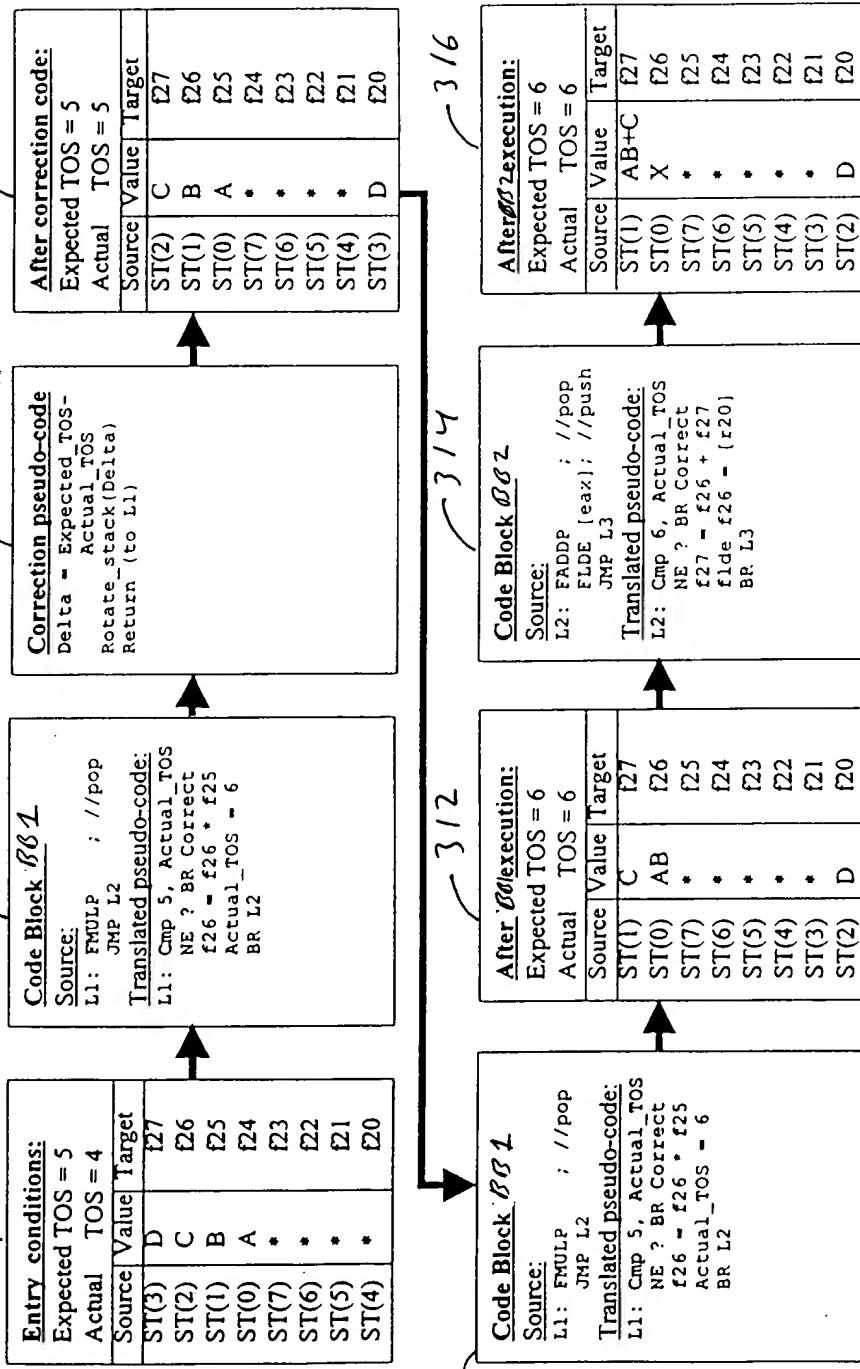
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Fig. 2

308

305 306 307

302



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Fig. 3

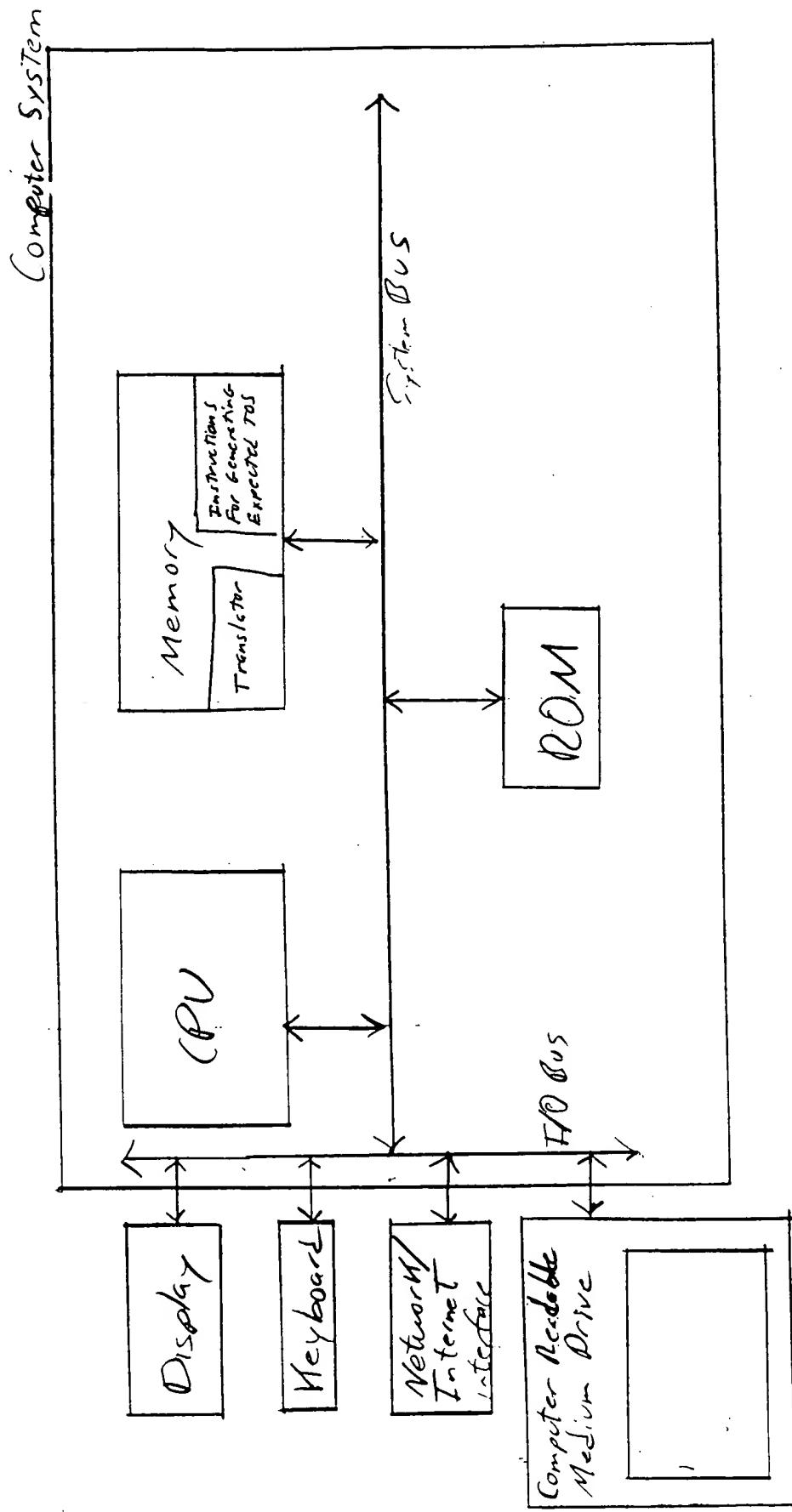


Fig. 4